



## Janice L. Cain, DVM

Diplomate, American College of Veterinary Internal Medicine

Primary Care – Canine Reproduction – Internal Medicine

T 925.866.8387 H 925.462.6445 E janicecain@comcast.net  
2000 BISHOP DRIVE | SAN RAMON, CA 94583

### **PLANNING A BREEDING WITH FROZEN SEMEN**

#### **Choosing Frozen Semen vs. Fresh Chilled Semen:**

Whenever possible chilled semen is preferred due to a better conception rate and lower cost overall. However, as a semen freezing center, I have been freezing and successfully using frozen semen for over 20 years. The success of frozen semen breedings depends on three things; 1) quality of the frozen semen 2) timing of the insemination 3) fertility of the bitch.

#### **Obtain semen from storage facility**

Frozen semen can be sent to me several weeks prior to the breeding; I can store the semen until it is needed. The semen owner will need to order the shipment and the bitch owner can coordinate shipment payment. If semen is stored at Synbiotics in Kansas City, MO please either call directly (800-228-4305) or contact their website ([www.synbiotics.com](http://www.synbiotics.com)) to receive paperwork to request the transfer. We accept frozen semen shipments routinely on Mon-Thurs 8am-5pm. Please call to let us know the tracking number and when it was shipped. Shipments may be received on Friday and Saturday in special circumstances.

#### **Pre-Breeding Exam**

While not required, it is ideal to schedule a pre-breeding exam to allow me to evaluate the bitch, her breeding history and to appropriately plan the insemination dose and route.

#### **How much semen to send?**

We always request enough semen to inseminate the bitch twice, however, often only one breeding is available to us. Whenever possible, we would like a minimum of 100-150 million live sperm for a single insemination. In certain situations double this amount may be advised. The amount of semen offered from the stud dog or freezing center may be less than this recommendation; we will work with what is provided but these recommendations are ideal. This can be discussed during a pre-breeding examination.

#### **What is involved with surgery or TCI?**

Semen is injected into the uterus directly with either method. Transcervical Insemination (TCI) will achieve this without the risks of anesthesia and surgery (please see the TCI handout) by using a scope to visualize the cervix. The surgical method (called an "implant" by some breeders) is major surgery requiring full anesthesia, an abdominal incision, and closure similar to a spay. Approximate recovery time from the surgical method is 10-14 days. There is no restriction in activity after a TCI.

#### **How to select the insemination method?**

Breeding by two TCI's approximately 24 hours apart is the best plan whenever possible. If TCI is not achieved, surgical insemination is recommended as a back up plan, but the bitch is only bred once by the surgical method. Surgical insemination may be considered as the optimal first choice in some situations.



## **Janice L. Cain, DVM**

Diplomate, American College of Veterinary Internal Medicine

Primary Care – Canine Reproduction – Internal Medicine

T 925.866.8387 H 925.462.6445 E [janicecain@comcast.net](mailto:janicecain@comcast.net)  
2000 BISHOP DRIVE | SAN RAMON, CA 94583

### **Ovulation Timing**

Ovulation timing is the key to success with frozen semen. Once thawed, frozen semen has a limited longevity—probably less than 24 hours. See the ovulation timing handout for more information.